Method for making mesh cable tray plugs



Overview

The assembly guide below will help the cable tray installer make the bends and others without difficulty even he had never installed wire mesh cable trays before.

Key Takeaways

A mesh cable tray plug can be made by cutting the tray end to size, smoothing edges, and installing a protective cap to prevent cable damage.

Materials and Tools Needed

Wire mesh cable tray sectionRubber or plastic end caps (sized to fit the tray)Bolt cutter or wire cutters for trimmingFile or deburring tool to smooth sharp edgesMeasuring tape and markerOptional: zip ties or clamps for securing the plugStep-by-Step Process1. Measure and Mark the Tray End Determine the length of the tray section that needs a plug. Mark the cut line clearly to ensure a straight and accurate cut, which is essential for a snug fit of the plug.

2. Cut the Tray Use a bolt cutter or wire cutters to trim the tray to the desired length. Bolt cutters are preferred because they create a clean cut and drag a layer of zinc across the cut end, providing some corrosion protection.

3. Smooth Sharp Edges After cutting, use a file or deburring tool to remove any sharp edges or protruding wires. This step prevents damage to cables and ensures safety during installation.

4. Install the End Cap Select a rubber or plastic end cap that fits the tray's width and height. Slide the cap over the cut end of the tray.

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The cap should cover all exposed wires and provide a smooth surface for cables to rest against. 5. Secure the Plug (Optional) For added stability, you can use zip ties or small clamps to hold the end cap in place, especially in high-vibration environments or where the tray may be moved frequently.

Tips for Best Results

Always wear gloves and eye protection when cutting and handling wire mesh. Ensure the plug maintains the tray's structural integrity and does not interfere with cable routing. Use caps made from durable materials suitable for the environment (e.g., UV-resistant plastic for outdoor use).

Check that the plug does not reduce airflow around the cables, preserving the tray's ventilation benefits. By following these steps, you can create a safe, durable mesh cable tray plug that protects cables and maintains the tray's functionality.

Article Content

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Wire Mesh Cable Tray Fitting Made Easy: A Practical

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Assembly Guide

The assembly guide below will help the cable tray installer make the bends and others without difficulty even he had never installed wire mesh cable trays before.

Mesh cable tray systems

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Wire Mesh Tray Technical Guide

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